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(54) BLADE PART FOR VARIOUS TOOLS

(57)Abstract:

PURPOSE: To provide a blade part having satisfactory corrosion resistance and sufficient hardness by composing the blade part of austenite stainless steel and forming a nitride layer on its surface.

CONSTITUTION: A blade body 2 for a knife 1 consists of SUS 304 (18-8 stainless steel) of austenite stainless steel, and the nitride layer is formed on the surface of that blade body 2a. The surface of the blade body 2a is subjected to nitridation after the material consisting of the SUS 304 is edged. The method for forming the nitride layer is executed by coating the blade part 2a with a nitride treatment agent and holding it for 20 to 100 hours while heating it to 475 to 580°C. Because of this heating, nitrogen is dispersed and impregnated over the surface of the blade part 2a and this surface is remarkably hardened. Since the temperature at the time of processing is low, the blade part 2a is not distorted by heat, either. The blade part 2a has the satisfactory corrosion resistance originally provided for austenite stainless steel, resists corrosion because of nitridation and further improves wearing resistance as well since its surface is hard.

